

CW 10/1

$$1) \sqrt{x} + 3 = 5$$

$$2) 6 + 3x^{\frac{1}{2}} = 0$$

$$3) \sqrt[3]{2x+5} = 4$$

$$4) 7 + \sqrt{3x-4} = 2$$

$$5) (3x-5)^{\frac{1}{6}} + 1 = 3$$

$$6) (x+2)^{\frac{1}{2}} = 5$$

$$1) \sqrt{x} + 3 = 5$$

$-3 \quad -3$

$$(\sqrt{x})^2 = (2)^2$$

$$x = 4$$

$$2) 6 + 3\sqrt{x} = 0$$

$-6 \quad -6$

$$3\sqrt{x} = -6$$

$\frac{3}{3} \quad \frac{-6}{3}$

$$(\sqrt{x})^2 = (-2)^2$$

$$x = 4$$

$$\sqrt{x} = -2$$

$$3) \sqrt[3]{2x+5} = 4$$

$$2x+5 = 64$$

$-5 \quad -5$

$$\frac{2x}{2} = \frac{59}{2}$$

$$x = \frac{59}{2} = 29.5$$

$$4) 7 + \sqrt{3x-4} = 2$$

$-7 \quad -7$

$$(\sqrt{3x-4})^2 = (-5)^2$$

$$3x-4 = 25$$

$+4 \quad +4$

$$\frac{3x}{3} = \frac{29}{3}$$

$$x = \frac{29}{3} = 9.\bar{6}$$

$$5) (3x-5)^{\frac{1}{6}} + 1 = 3$$

$-1 \quad -1$

$$(\sqrt[6]{3x-5})^6 = (2)^6$$

$$3x-5 = 64$$

$+5 \quad +5$

$$3x = \frac{69}{3}$$

$$x = 23$$

$$6) (x+2)^{\frac{1}{2}} = 5$$

$^2 \quad ^2$

$$(\sqrt{x+2})^2 = (5)^2$$

$$x+2 = 25$$

$-2 \quad -2$

$$x = 23$$